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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/839,158	04/23/2001	Hirokazu Kawamoto	35.G2785	1598

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EXAMINER

RUDOLPH, VINCENT M

ART UNIT PAPER NUMBER

2625

DATE MAILED: 12/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/839,158	<b>Applicant(s)</b> KAWAMOTO ET AL.	
	<b>Examiner</b> Vincent M. Rudolph	<b>Art Unit</b> 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 25 September 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 43-46, 49-52, 61-64, 67, 69 and 71 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 43-46, 49-52, 61-64, 67, 69 and 71 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 April 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Specification*

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 43-46, 49-52, 61-64, 67, 69 and 71 are rejected under 35 U.S.C. 103(a) as being anticipated by Fischer ('588) in view of Simpson ('592).

Regarding claim 43, Fischer ('588) discloses an information processing apparatus (host computer, See Figure 1, Element 45) for producing single print jobs to be printed by a printing apparatus (a MOPY print job, See Col. 10, Line 14-16, in which a single print job sent once but outputted multiple times, See Col. 1, Line 41-45) to be printed by a printing apparatus (page printer, See Figure 1, Element 10) wherein each single print job includes a header part that describes a print control command and a print data part described by a print language (PJM header followed by multiple PDL pages of data, See Col. 5, Line 28-30), and enabling the printing apparatus to print a plurality of output formats (See Col. 6, Line 8-19) by adding a command to the header part at the direction of the information processing apparatus (See Col. 9, Line 66-Col. 10, Line 3). This includes a setting means (embodied within the host computer) capable

of setting a plurality of output formats for one piece of data to be printed within the information processing apparatus (a MOPY print job, See Col. 10, Line 14-16, for setting multiple output formats, See Col. 6, Line 8-14, in a single print job to be printed, See Col. 1, Line 41-47), producing means for producing each single print including the header part that has a group of job commands describing the print control command and the print data part described by the print language (the data stream, which is received from a host computer, See Col. 3, Line 66-Col. 4, Line 2, includes the PDL header data as well as PDL pages, See Col. 5, Line 28-30), sending means for sending each single print job produced to the printing apparatus (the data stream is transferred to the page printer, See Figure 1; Col. 3, Line 66-Col. 4, Line 2, in the event a multiple original copy print job is detected in the data stream, See Col. 10, Line 14-18) so that the printing apparatus receives each single print job and executes a printing operation with the output format that corresponds to the group of job commands of the print job (such as a duplex printing operation is detected for the multiple output formats and processed according to the user's specifications, See Col. 10, Line 27-31).

Fischer ('588) does not disclose that the information processing apparatus includes a printer driver from a GUI.

Simpsons ('592) discloses a computer that executes a print driver program for a document as inputted from a user (See Col. 6, Line 48-55).

It would have been obvious to one of ordinary skill in the art at the time of the invention by the applicant to include to include a printer driver, such as the one disclosed within Simpson ('592) and incorporate it into the information processing

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apparatus of Fischer ('588) because it enables a user to input the desired settings on a user interface on the computer in order for a printer to be able to comprehend the print data sent and generate the document to output it accordingly.

Regarding claim 44, Fischer ('588) discloses that the setting means is capable of setting a combination of predetermined output formats (one of multiple output formats is able to be selected, See Col. 6, Line 7-19).

Regarding claim 45, Fischer ('588) discloses that the combination of predetermined output formats includes a first output where one page is outputted onto one sheet and a second output format where a plurality of pages are output onto one sheet (such as do not duplex on one sheet, but duplex the subsequent sheet, See Col. 27-31).

Regarding claim 46, Fischer ('588) discloses that the setting means is capable of setting an arbitrary combination of output formats (able to be done in order to differentiate between the settings within the multiple pages, See Col. 7, Line 36-43).

Regarding claim 67, Fischer ('588) discloses that each single print job where a new command for the output formats is added makes the printing apparatus convert the print data into print image data in accordance with the group of job commands and execute the printing operation (convert the data received into bit map data, See Col. 3, Line 57-62, wherein the data received includes header data, See Col. 5, Line 28-30, regarding the job settings, See Col. 6, Line 7-14).

Fischer ('588) does not disclose converting the data for the plurality of output formats more than once, but it would have been obvious to one of ordinary skill in the

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art to have done so. For example, by having the single print job with multiple formats converted multiple times, a user has to only submit the single job once (which a user does whenever setting a MOPY print job, See Col. 1, Line 41-47), which reduces the number of times a user has to resubmit a different formatted print job.

It would have been obvious to one of ordinary skill in the art at the time of the invention by the applicant to have included converting the print data multiple times and incorporate it into the information processing apparatus of Fischer ('588) because it allows a user to only submit the single print job with multiple output formats once, which reduces the print queue for the user if more than one user submits print jobs to be outputted.

Regarding claims 49-52, 61-64, 69 and 71, the rationale provided in the rejection of claims 43-46 and 67 is incorporated herein. In addition, the apparatus of claims 43-46 and 67 corresponds to the method of claims 49-52 and 69 as well as the computer-readable medium (embodied within the host computer, See Figure 1, Element 45) of claims 61-64 and 71, and performs the steps disclosed herein.

### ***Response to Arguments***

Applicant argues the prior art does not disclose that each single print job includes a header part that describes a print control command, print data describing by print control language, and adding a command to the header part. Based on these new limitations, the prior art of Fischer is used to meet these amended claims. According to Fischer, a header part is configured within the PDL header data and following it is the print language, which is described by the PDL language (See Col. 5, Line 28-30). An

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additional command is also added to the header regarding an output format (See Col. 9, Line 66-Col. 10, Line 1). Even though Fischer does not disclose a printer driver, by incorporating the prior art of Simpson into it, which discloses a printer driver (for submitting print jobs as inputted by the user, See Col. 6, Line 48-55), it would have been obvious to one of ordinary skill to have it in order to have the printer correctly understand the data being sent from the user so that the document can be outputted correctly. Thus, a user is able to submit a single print job that is able to output it multiple times along with the desired output format (called a MOPY, where a user is able to send a single print job once and add different output operations, such as stapling, binding, etc., to the document, See Col. 1, Line 41-47). As a result, the combined prior art is able to meet the limitations of the amended claims, and based on these facts, **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

**Conclusion**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is: Shima ('514).


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent M. Rudolph whose telephone number is (571) 272-8243. The examiner can normally be reached on Monday through Friday 8 A.M. - 4:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams can be reached on (571) 272-7471. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

12/11/06  
VMR

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